

## Recombinant Full Length Human PTGES3 Protein (1-160 aa), His-tagged

**Cat. No.** PTGES3-2568H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PTGES3 Protein (1-160 aa) is produced by Yeast expression system. This protein is fused with a 10xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Full length.                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 1-160 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Cytosolic prostaglandin synthase that catalyzes the oxidoreduction of prostaglandin endoperoxide H <sub>2</sub> (PGH <sub>2</sub> ) to prostaglandin E <sub>2</sub> (PGE <sub>2</sub> ). Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes. Facilitates HIF alpha proteins hydroxylation via interaction with EGLN1/PHD2, leading to recruit EGLN1/PHD2 to the HSP90 pathway. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 21.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MQPASAKWYDRRDYVFIEFCVEDSKDVNVNFEKSKLTFSCLGGSDFNFKHLNEIDLF<br>HCIDPND SKHKRTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWED                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | DSDEDMSNFDRFSEMMNNMGGDEDVDLPEVDGADDDSQDSDDEKMPDLE                                                                                                                                                                                                                                                                   |
| <b>Purity</b>        | > 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                |

## GENE INFORMATION

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTGES3 prostaglandin E synthase 3 (cytosolic) [ Homo sapiens ]                 |
| <b>Official Symbol</b> | PTGES3                                                                         |
| <b>Synonyms</b>        | PTGES3; prostaglandin E synthase 3; cPGES; p23; TEBP; Hsp90 co-chaperone; P23; |
| <b>Gene ID</b>         | 10728                                                                          |
| <b>mRNA Refseq</b>     | NM_006601                                                                      |
| <b>Protein Refseq</b>  | NP_006592                                                                      |
| <b>MIM</b>             | 607061                                                                         |

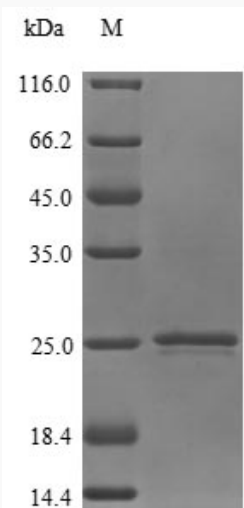
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UniProt ID

Q15185



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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